DAFTAR PUSTAKA

[1] C. Pui, M. V Relling, and J. R. Downing, "Acute Lymphoblastic Leukemia," *New Engl. J. Med.*, vol. 350, no. 15, pp. 1535–1548, 2004.

[2] P. D. I. M. Bakta, "LEUKEMIA DAN PENYAKIT MIELOPROLIFERATIF," in *Hematologi Klinik Ringkas*, Jakarta: EGC, 2006, pp. 120–136.

[3] S. Shafique and S. Tehsin, "Acute Lymphoblastic Leukemia Detection and Classification of Its Subtypes Using Pretrained Deep Convolutional Neural Networks," *Technol. Cancer Res. Treat.*, vol. 17, pp. 1–7, 2018.

[4] S. Rajpurohit, S. Patil, N. Choudhary, S. Gavasane, and P. P. Kosamkar, "Identification of Acute Lymphoblastic Leukemia in Microscopic Blood Image Using Image Processing and Machine Learning Algorithms," no. Cll, pp. 2359–2363, 2018.

[5] S. Mishra, B. Majhi, and P. K. Sa, "Texture feature based classification on microscopic blood smear for acute lymphoblastic leukemia detection," *Biomed. Signal Process. Control*, vol. 47, pp. 303–311, 2019.

[6] S. Mishra, B. Majhi, P. K. Sa, and L. Sharma, "Gray level co-occurrence matrix and random forest based acute lymphoblastic leukemia detection," *Biomed. Signal Process. Control*, vol. 33, pp. 272–280, 2017.

[7] R. Bhattacharjee and L. M. Saini, "Detection of Acute Lymphoblastic Leukemia using watershed transformation technique," in *Proceedings of 2015 International Conference on Signal Processing, Computing and Control, ISPCC 2015*, 2015, pp. 383–386.

[8] V. Singhal and P. Singh, "Local Binary Pattern for automatic detection of Acute Lymphoblastic Leukemia," *2014 20th Natl. Conf. Commun. NCC 2014*, pp. 1–5, 2014.

[9] R. Bhattacharjee and L. M. Saini, "Robust technique for the detection of Acute Lymphoblastic Leukemia," *2015 IEEE Power, Commun. Inf. Technol. Conf. PCITC 2015 - Proc.*, pp. 657–662, 2016.

[10] A. Rahyagara, "Deteksi Jenis Sel Darah Putih Menggunakan Convolutional Neural Network," Universitas Gadjah Mada, 2018.

[11] J. Redmon, S. Divvala, R. Girshick, and A. Farhadi, "You Only Look Once : Unified , Real-Time Object Detection," *2016 IEEE Conf. Comput. Vis. Pattern Recognit.*, pp. 779–788, 2016.

[12] R. Girshick, J. Donahue, T. Darrell, and J. Malik, "Rich feature hierarchies for accurate object detection and semantic segmentation," *Proc. IEEE Comput. Soc. Conf. Comput. Vis. Pattern Recognit.*, pp. 580–587, 2014.

[13] R. Girshick, "Fast R-CNN," *2015 IEEE Int. Conf. Comput. Vis.*, pp. 1440–1448, 2015.

[14] S. Ren, K. He, R. Girshick, and J. Sun, "Faster R-CNN: Towards Real-Time Object Detection with Region Proposal Networks," *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 39, no. 6, pp. 1137–1149, 2017.

[15] J. Redmon and A. Farhadi, "YOLO9000: Better, Faster, Stronger," *2017 IEEE Conf. Comput. Vis. Pattern Recognit.*, pp. 6517–6525, 2017.

[16] A. Ghosh, S. Singh, and D. Sheet, "Simultaneous Localization and Classification of Acute Lymphoblastic Leukemic Cells in Peripheral Blood Smears Using a Deep Convolutional Network with Average Pooling Layer," *ICIIS 2017*, pp. 1–6, 2017.

[17] A. Krizhevsky, I. Sutskever, and G. E. Hinton, "ImageNet Classification with Deep Convolutional Neural Networks," *Am. J. PharmacoGenomics*, vol. 4, no. 4, pp. 253–262, 2004.

[18] A. Rehman, N. Abbas, and T. Saba, "Classification of acute lymphoblastic leukemia using deep learning," *Microsc. Res. Tech.*, vol. 81, no. 11, pp. 1–8, 2018.

[19] I. Zulfikri, "Klasifikasi Citra Sel Darah Putih pada Pasien Terjangkit ALL Tipe L1 dengan Metode Capsule Neural Network," Universitas Gadjah Mada, 2019.

[20] A. Rahman and M. Hasan, "Automatic Detection of White Blood Cells from Microscopic Images for Malignancy Classification of Acute Lymphoblastic Leukemia," *2018 Int. Conf. Innov. Eng. Technol.*, pp. 1–6, 2018.

[21] R. Gandhi, "R-CNN, Fast R-CNN, Faster R-CNN, YOLO — Object Detection Algorithms," 2018. [Online]. Available: https://towardsdatascience.com/r-cnn-fast-r-cnn-faster-r-cnn-yolo-object-detection-algorithms-36d53571365e. [Accessed: 24-Oct-2019].

[22] J. Zhao, M. Zhang, Z. Zhou, J. Chu, and F. Cao, "Automatic detection and classification of leukocytes using convolutional neural networks," *Med. Biol. Eng. Comput.*, vol. 55, no. 8, pp. 1287–1301, 2017.

[23] X. Wang, T. Xu, J. Zhang, S. Chen, and Y. Zhang, "SO-YOLO Based WBC Detection With Fourier Ptychographic Microscopy," *IEEE Access*, vol. 6, pp. 51566–51576, 2018.

[24] S. Newman and T. Persson, "White Blood Cell Differential Counting in Blood Smears via Tiny YOLO," Standford University, 2018.

[25] M. M. Alam and M. T. Islam, "Machine learning approach of automatic identification and counting of blood cells," *Healthc. Technol. Lett.*, vol. 6, no. 4, pp. 103–108, 2019.

[26] C. Smith, "Hematopoietic Stem Cells and Hematopoiesis," *Cancer Control*, pp. 9–16, 2003.

[27] P. T. E. PDQ®, "Childhood Acute Lymphoblastic Leukemia Treatment (PDQ®)–Patient Version," *Bethesda, MD: National Cancer Institute*, 2019. [Online]. Available: https://www.cancer.gov/types/leukemia/patient/child-all-treatment-pdq. [Accessed: 12-Apr-2019].

[28] "Lymphoblast cell," *Encyclopaedia Britannica*. [Online]. Available: https://www.britannica.com/science/lymphoblast. [Accessed: 09-Dec-2019].

[29] T. G. Uhm, B. S. Kim, and I. Y. Chung, "Eosinophil Development , Regulation of Eosinophil-Specific Genes , and Role of Eosinophils in the Pathogenesis of Asthma," *Allergy, Asthma, Immunol. Res.*, vol. 4, no. 2, pp. 68–79, 2012.

[30] Sysmex-europe.com, "Classification of Neutrophilic Granulocytes," *Sysmex*. [Online]. Available: https://www.sysmex-europe.com/media-%0Acenter/classification-of-neutrophilic-granulocytes-1348.html. [Accessed: 09-Dec-2019].

[31] J. E. Goasguen, J. M. Bennett, B. J. Bain, R. B. T. Vallespi, and G. J. Mufti, "Morphological evaluation of monocytes and their precursors," *Haematologica*, vol. 94, no. 7, pp. 994–997, 2009.

[32] T. B. Moeslund, *Introduction to Video and Image Processing Building Real Systems and Applications*. London: Springer-Verlag London, 2012.

[33] H. Kolivand and M. Sunar, "Real-Time Sky Color with Effect of Sun's Position," *Int. J. Sci. Eng. Res.*, vol. 2, no. 11, pp. 2–7, 2011.

[34] A. K. Gupta and D. J. Bora, "A Novel Color Image Segmentation Approach Based On K-Means Clustering with Proper Determination of the Number of Clusters and Suitable Distance Metric," *Int. J. Comput. Sci. Eng. Technol.*, vol. 7, no. 09, pp. 395–409, 2016.

[35] N. Dalal *et al.*, "Histograms of Oriented Gradients for Human Detection," in *International Conference on Computer Vision & Pattern Recogniton (CVPR)*, 2005, pp. 886–893.

[36] J. Johnson, S. Yeung, and F.-F. Li, "CS231n Convolutional Neural Networks for Visual Recognition," *Stanford University*, 2017. [Online]. Available: http://cs231n.github.io/convolutional-networks/. [Accessed: 20-Jan-2020].

[37] C. M. Bishop, *Patter Recognition and Machine Learning*. New York: Springer, 2006.

[38] P. Skalski, "Gentle Dive into Math Behind Convolutional Neural Networks," *Towards Data Science*, 2019. [Online]. Available: https://towardsdatascience.com/gentle-dive-into-math-behind-convolutional-neural-networks-79a07dd44cf9. [Accessed: 11-Jan-2020].

[39] K. O'Shea and R. Nash, "An Introduction to Convolutional Neural Networks," pp. 1–11, 2015.

[40] S. Albawi, T. A. Mohammed, and S. Al-Zawi, "Understanding of a convolutional neural network," *Proc. 2017 Int. Conf. Eng. Technol. ICET 2017*, vol. 2018-Janua, pp. 1–6, 2018.

[41] A. Rosebrock, "Intersection over Union (IoU) for object detection," 2016. [Online]. Available: https://www.pyimagesearch.com/2016/11/07/intersection-over-union-iou-for-object-detection/. [Accessed: 03-Dec-2019].

[42] J. Hui, "Real-time Object Detection with YOLO, YOLOv2 and now YOLOv3," 2018. [Online]. Available: https://medium.com/@jonathan_hui/real-time-object-detection-with-yolo-yolov2-28b1b93e2088. [Accessed: 03-Dec-2019].

[43] J. Hosang and M. Planck, "Learning non-maximum suppression," in *IEE Conference on Computer Vision and Pattern Recognition*, 2017, pp. 6469–6477.

[44] D. P. Kingma and J. L. Ba, "Adam: A Method for Stochastic Optimization," in *ICLR 2015*, 2015, pp. 1–15.

[45] R. Yedida and S. Saha, "A novel adaptive learning rate scheduler for deep neural networks," in *eprint arXiv:1902.07399v2*, 2019, pp. 1–21.

[46] L. Torrey and J. Shavlik, "Transfer learning," in *Handbook of Research on Machine Learning Applications and Trends: Algorithms, Methods, and Techniques*, IGI Global, 2010, pp. 242–264.

[47] T. Lin, C. L. Zitnick, and P. Doll, "Microsoft COCO : Common Objects in Context," in *eprint arXiv:1405.0312v3*, 2015, pp. 1–15.

[48] M. Everingham, L. Van Gool, C. K. I. Williams, and J. Winn, "The PASCAL Visual Object Classes (VOC) Challenge," *Int. J. Comput. Vis.*, vol. 88, pp. 303–338, 2010.

[49] G. Campanella, V. W. K. Silva, and T. J. Fuchs, "Terabyte-scale Deep Multiple Instance Learning for Classification and Localization in Pathology," in *arXiv:1805.06983v2*, 2018, pp. 1–18.